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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/627,727	07/28/2003	Kazunori Inoue	1082.1061	7084	
21171	7590 03/24/2005		EXAM	EXAMINER	
STAAS & HALSEY LLP			HODGES, MATTHEW P		
	SUITE 700 1201 NEW YORK AVENUE, N.W.		ART UNIT	PAPER NUMBER	
	ON, DC 20005		2879		
			DATE MAILED: 03/24/2009	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/627,727	INOUE ET AL.	an			
Office Action Summary	Examiner	Art Unit	(a.v			
	Matt P. Hodges	2879	•			
The MAILING DATE of this communication ap	pears on the cover she	et with the correspondence add	iress			
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stature and the period for reply will, by stature and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, moly within the statutory minimum will apply and will expire SIX (6) e, cause the application to become	nay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 10.	lanuary 2005.					
2a)☐ This action is FINAL . 2b)☑ Thi	2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
closed in accordance with the practice under	Ex parte Quayle, 1935	C.D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) 1-15 is/are pending in the application	٦.					
4a) Of the above claim(s) <u>9-13</u> is/are withdraw						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-8,14 and 15</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement					
Application Papers						
9) The specification is objected to by the Examin	er.					
10)⊠ The drawing(s) filed on <u>28 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	ction is required if the dra	wing(s) is objected to. See 37 CF	R 1.121(d).			
11)☐ The oath or declaration is objected to by the E	xaminer. Note the atta	ched Office Action or form PT	O-152.			
Priority under 35 U.S.C. § 119						
 12)⊠ Acknowledgment is made of a claim for foreig	n priority under 35 U.S.	.C. § 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:	•	0 () () ()				
1. ☑ Certified copies of the priority documer	ts have been received.					
2.☐ Certified copies of the priority documer	ts have been received	in Application No				
3.☐ Copies of the certified copies of the price	ority documents have b	een received in this National S	Stage			
application from the International Burea						
* See the attached detailed Office action for a lis	t of the certified copies	not received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		iew Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08		· No(s)/Mail Date e of Informal Patent Application (PTO-	-152)			
Paper No(s)/Mail Date 12/22/2003.	, <u> </u>	:	· /			
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office A	action Summary	Part of Paper No./Mail (Date 032005			

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I in the reply filed on 1/10/2005 is acknowledged.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Specifically the title should be directed to an aspect of the claimed invention to distinguish from other plasma display panels.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-8, 14 and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Uemura et al. (US 6,650,063).

Regarding claims 1, 4, and 14, Uemura discloses (See Figure 1), a gas discharge panel including a front substrate (21), electrodes (22 and 23) formed on the substrate, a dielectric layer (26) of low melting point glass formed on the substrate and electrodes, and a protection layer

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(274) formed on the dielectric layer. (Column 5 lines 20-36). The protection layer has a bilayer structure where it includes both MgO and TiO₂. (Column 3 lines 27-38).

Regarding claim 3, the protective layer composed of a bi-layer of TiO₂ has a bandgap less than 6.2 eV.

Regarding claim 2, a protective layer composed of a bi-layer TiO₂ layer would not transmit light of 200nm or less.

Regarding claims 5, 8, and 15, Uemura alternatively discloses (See Figure 1), a gas discharge panel including a front substrate (21), electrodes (22 and 23) formed on the substrate, a dielectric layer (26) of low melting point glass formed on the substrate and electrodes, an intermediate layer (27-1) formed on the dielectric layer, and a protection layer (27-2) formed on the intermediate layer. (Column 5 lines 20-36). The protection layer is composed of MgO while the intermediate layer is composed for TiO₂. (Column 3 lines 27-38).

Regarding claim 6, the intermediate layer composed of TiO₂ has a bandgap less than 6.2 eV.

Regarding claim 7, a TiO₂ layer would not transmit light of 200nm or less.

Claims 1-3, and 14 are rejected under 35 U.S.C. 102(e) as being anticipated by Katou et al. (US 2002/0121861).

Regarding claims 1, and 14, Katou discloses (See Figure 1), a gas discharge panel including a front substrate (9), electrodes (7 and 8) formed on the substrate, a dielectric layer (6) formed on the substrate and electrodes, and a protection layer (5) formed on the dielectric layer.

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(Page 2 paragraphs 30-33). The protection layer is composed of both MgO and TiO₂. (Page 2 paragraphs 22 and 23).

Regarding claim 3, the protective layer including TiO₂ has a bandgap less than 6.2 eV.

Regarding claim 2, a protective layer including TiO₂ layer would not transmit light of 200nm or less.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Miyashita et al. (US 2004/0075388) discloses the use of an interlayer of AlN between the protection layer and the dielectric layer.

Hirano et al. (US 2003/0030377) discloses the use of an MgO protection layer with the inclusion of Zn Ions.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matt P Hodges whose telephone number is (571) 272-2454. The examiner can normally be reached on 7:30 AM to 4:00 PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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